

# Claims

- [c1] What is claimed is:
- 1.A printer comprising:
    - a first housing;
    - a printing module installed on the first housing for printing data; and
    - a controller comprising:
      - a second housing that can be detached installed on the first housing;
      - a processor installed in the second housing for processing programs and data; and
      - a display panel installed on the second housing and electrically connected to the processor for displaying data.
  - [c2] 2.The printer of claim 1 wherein the controller further comprises a plurality of buttons installed on the second housing for inputting control signals.
  - [c3] 3.The printer of claim 1 wherein the controller further comprises a touch panel installed on the display panel for inputting control signals.
  - [c4] 4.The printer of claim 1 wherein the first housing com-

prises a first connecting port, the second housing comprises a second connecting port, and the printer further comprises a wire connected between the first connecting port and the second connecting port for electrically connecting the printing module to the processor of the controller.

[c5] 5.The printer of claim 4 wherein the first connecting port and the second connecting port conform to the USB1.0 or USB2.0 standard.

[c6] 6.The printer of claim 4 wherein the first connecting port and the second connecting port conform to the IEEE1394 standard.

[c7] 7.The printer of claim 1 wherein the printer further comprises a first wireless transmitting module connected to the printing module, and the controller further comprises a second transmitting module connected to the processor for wirelessly exchanging data with the first transmitting module.

[c8] 8.The printer of claim 7 wherein the first transmitting module and the second transmitting module utilize the IEEE 802.11b WLAN protocol.

[c9] 9.The printer of claim 7 wherein the first transmitting module and the second transmitting module utilize the

Bluetooth<sup>TM</sup> WLAN protocol.

- [c10] 10.The printer of claim 7 wherein the first transmitting module and the second transmitting module transmit data by infrared.
- [c11] 11.The printer of claim 1 wherein the controller further comprises a storage device that can be detached installed on the second housing for storing data.
- [c12] 12.The printer of claim 11 wherein the storage device is a read-only memory (ROM).
- [c13] 13.The printer of claim 11 wherein the storage device is a flash memory.
- [c14] 14.The printer of claim 1 wherein the second housing further comprises a third connecting port for connecting an image input device.
- [c15] 15.The printer of claim 14 wherein the third connecting port conforms to USB1.0 or USB2.0 standard.
- [c16] 16.The printer of claim 14 wherein the third connecting port conforms to IEEE1394 standard.